

Table A-22. **Company and other non-Federal funds for industrial R&D performance in the U.S. as a percent of net sales of companies that performed industrial R&D in the U.S., by industry and size of company, ranked by size of nonfederally funded R&D program: 2000**

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Industry and size of company	NAICS codes	Company and other non-Federal R&D funds			Company and other non-Federal R&D funds as a percent of net sales		
		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
		[In millions of dollars]			[Percent]		
Distribution by industry:							
All industries.....	21–23, 31–33, 42, 44–81	18,551	13,356	22,189	9.5	7.3	5.2
Manufacturing.....	31–33	18,453	10,197	18,636	6.3	4.8	7.0
Food.....	311	345	177	250	0.9	0.4	0.3
Beverage and tobacco products.....	312	408	6	0	0.8	0.3	0.0
Textiles, apparel, and leather.....	313–16	71	48	59	0.9	0.8	1.1
Wood products.....	321	89	6	4	1.1	0.2	0.3
Paper, printing and support activities.....	322, 323	2,229	208	181	3.6	0.9	0.4
Petroleum and coal products.....	324	1,014	99	9	0.5	0.1	0.1
Chemicals.....	325	6,211	4,210	5,177	10.8	10.3	6.8
Basic chemicals.....	3251	490	267	497	3.5	3.2	2.2
Resin, synthetic rubber, fibers, and filament.....	3252	2,454	274	108	6.7	3.9	1.9
Pharmaceuticals and medicines.....	3254	5,866	3,809	2,454	11.6	9.2	8.8
Other chemicals.....	325 (minus 3251–52, 3254)	1,955	322	355	6.3	2.4	3.0
Plastics and rubber products.....	326	609	210	260	3.5	1.7	2.2
Nonmetallic mineral products.....	327	512	96	108	3.4	1.4	1.3
Primary metals.....	331	274	82	103	0.5	0.7	0.5
Fabricated metal products.....	332	723	165	214	3.3	2.1	0.9
Machinery.....	333	1,970	735	1,179	6.5	4.8	4.7
Computer and electronic products.....	334	14,290	4,985	6,016	11.7	12.7	5.6
Computers and peripheral equipment.....	3341	3,143	945	508	9.1	15.7	3.6
Communications equipment.....	3342	8,487	683	797	11.9	6.3	6.4
Semiconductor and other electronic components.....	3344 (S)	7,151	1,487	2,069	11.1	4.7	11.5
Navigational, measuring, electromedical, and control instruments.....	3345	4,879	1,466	1,625	7.2	12.0	10.7
Other computer and electronic products.....	334 (minus 3341–42, 3344–45)	209	41	45	7.9	6.2	1.9

See explanatory information and SOURCE at end of table.

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Industry and size of company	NAICS codes	Company and other non-Federal R&D funds			Company and other non-Federal R&D funds as a percent of net sales		
		First 4 companies	Next 4 companies	Next 12 companies	First 4 companies	Next 4 companies	Next 12 companies
		[In millions of dollars]			[Percent]		
Distribution by industry:							
Electrical equipment, appliances, and components.....	335	2,067	237	399	1.9	2.9	2.4
Transportation equipment.....	336	14,361	4,409	2,210	3.7	3.5	2.8
Motor vehicles, trailers, and parts.....	3361-63	14,361	2,439	760	3.7	5.0	2.0
Aerospace products and parts.....	3364	3,043	631	200	2.7	2.9	3.1
Other transportation equipment.....	336 (minus 3361-64)	424	132	77	2.0	1.9	0.9
Furniture and related products.....	337 (S)	138	56	45	1.1	0.9	0.6
Miscellaneous manufacturing.....	339	2,600	358	370	37.3	10.1	4.8
Medical equipment and supplies.....	3391	2,578	290	306	46.4	6.4	5.3
Other miscellaneous manufacturing.....	339 (minus 3391)	216	42	70	5.2	2.0	3.0
Other manufacturing	31-33 (minus 311-16, 321-27, 331-37, 339)	--	--	--	--	--	--
Small manufacturing companies ¹	Fewer than 50 employees	12	5	5	39.0	19.1	5.5
Nonmanufacturing.....	21-23, 42, 44-81	11,531	3,585	5,563	19.5	11.7	4.1
Mining, extraction, and support activities.....	21	635	112	60	1.9	0.4	0.8
Utilities.....	22	42	27	28	0.1	0.1	0.1
Construction.....	23	89	26	5	2.4	2.0	0.1
Trade.....	42, 44, 45	8,994	2,399	3,277	15.5	12.9	10.5
Transportation and warehousing.....	48, 49	184	17	9	0.4	0.1	0.1
Information.....	51	5,955	1,321	2,325	17.3	1.5	3.1
Publishing.....	511	5,316	1,107	1,869	22.2	23.9	15.7
Newspaper, periodical, book, and database.....	5111	241	20	6	2.7	0.3	0.6
Software.....	5112	5,316	1,107	1,860	22.2	23.9	25.9

See explanatory information and SOURCE at end of table.

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		[In millions of dollars]			[Percent]		
Distribution by industry:							
Broadcasting and telecommunications.....	513	784	136	70	0.3	0.3	2.0
Radio and television broadcasting.....	5131	(D)	0	0	0.4	0.0	0.0
Telecommunications.....	5133	784	123	24	0.3	0.3	0.8
Other broadcasting and telecommunications.....	513 (minus 5131, 5133)	31	0	0	100.0	0.0	0.0
Other information.....	51 (minus 511, 513)	1,344	228	212	3.8	8.1	4.6
Finance, insurance, and real estate.....	52, 53	975	447	329	1.1	1.7	0.7
Professional, scientific, and technical services.....	54	1,413	832	1,458	12.4	44.1	19.5
Architectural, engineering, and related services.....	5413	662	306	199	19.0	9.0	4.6
Computer systems design and related services.....	5415	395	288	500	13.3	27.5	5.5
Scientific R&D services.....	5417	1,413	755	1,075	12.4	36.7	53.6
Other professional, scientific, and technical services....	54 (minus 5413, 5415, 5417)	188	55	44	13.5	0.8	1.2
Management of companies and enterprises.....	55	37	2	0	28.3	0.3	0.4
Health care services.....	621-23	44	22	20	0.8	0.9	0.8
Other nonmanufacturing	56, 61, 624, 71, 72, 81	272	106	106	2.2	3.9	0.4
Small nonmanufacturing companies ¹	Fewer than 15 employees	67	12	6	16.3	535.0	33.2

See explanatory information and SOURCE at end of table.

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		[In millions of dollars]			[Percent]		
Distribution by size of company: [Number of employees]							
Total.....	(na)	18,551	13,356	22,189	9.5	7.3	5.2
5 to 24.....	(na) (S)	61	31	53	41.3	160.6	154.3
25 to 49.....	(na)	118	60	119	74.4	161.4	137.3
50 to 99.....	(na)	174	114	223	85.7	232.0	141.8
100 to 249.....	(na)	282	200	449	15.2	39.4	90.5
250 to 499.....	(na)	491	346	742	133.6	32.3	34.3
500 to 999.....	(na)	781	378	844	48.6	20.5	17.7
1,000 to 4,999.....	(na)	1,780	1,355	3,123	26.9	13.6	23.9
5,000 to 9,999.....	(na)	2,922	1,862	3,404	13.7	12.7	7.7
10,000 to 24,999.....	(na)	8,500	4,301	7,230	25.7	16.9	6.9
25,000 or more.....	(na)	18,551	12,494	18,978	9.5	6.3	4.5

¹ The frame from which the statistical sample was selected was divided into two partitions based on total company employment. In the manufacturing sector, companies with employment of 50 or more were included in the large company partition. In the nonmanufacturing sector, companies with employment of 15 or more were included in the large company partition. Companies in the respective sectors with employment below these values, but with at least 5 employees, were included in the small company partition. The purpose of partitioning the sample this way was to reduce the variability in industry estimates largely attributed to the random year-to-year selection of small companies by industry and the high sampling weights that sometimes were assigned to them. Because of this, detailed industry statistics were possible only from the large company partition; detailed industry statistics from the small company partition were not possible. Statistics from the small company partition are shown separately and are included in manufacturing, nonmanufacturing, and all industries totals. For more information, see "frame creation" and "sample selection" in the technical notes in Section B.

KEY: (D) = Data have been withheld to avoid disclosing operations of individual companies.
(S) = Indicates imputation of more than 50 percent.
(--) = Indicates data not collected.
(na) = Not applicable.

NOTES: The R&D in this table is the industrial R&D performed within company facilities funded from all sources except the Federal Government. The funds predominantly are the company's own, but also include funds from outside organizations such as other companies, research institutions, universities and colleges, nonprofit organizations, and State governments. Excluded from this table are company-funded R&D not performed within the company (e.g., R&D contracted out to other organizations) and company-funded R&D not performed in the U.S. (e.g., R&D not performed on U.S. soil by foreign subsidiaries or other foreign organizations).

Rankings were based on company and other R&D funds.

SOURCE: National Science Foundation/Division of Science Resources Statistics, Survey of Industrial Research and Development: 2000